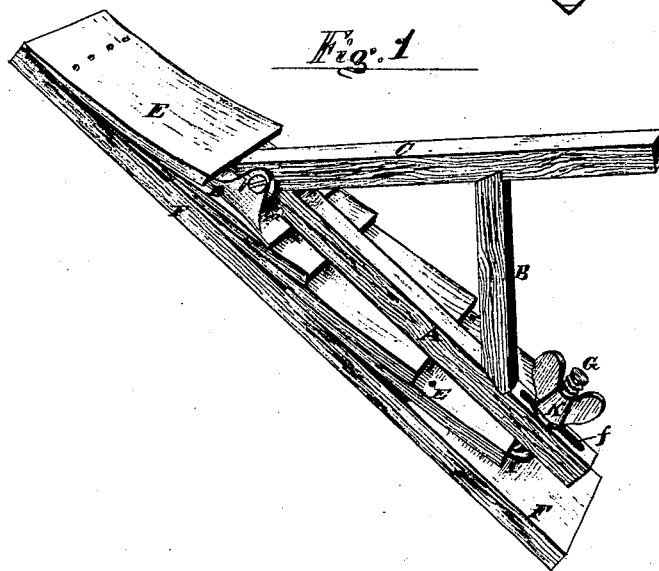
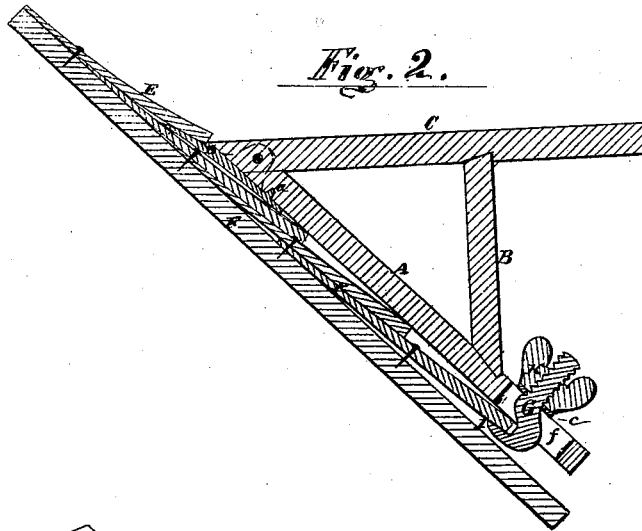


E. J. Worcester,

Shingling Bracket.

No. 108748.

Patented Oct. 25. 1870.



Witnesses:

A. E. Pierce

Thos. H. Dodge

Inventor:

Edward J. Worcester

United States Patent Office.

EDWARD J. WORCESTER, OF WORCESTER, MASSACHUSETTS.

Letters Patent No. 108,748, dated October 25, 1870.

IMPROVEMENT IN SHINGLING-BRACKETS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern :

Be it known that I, EDWARD J. WORCESTER, of the city and county of Worcester, and State of Massachusetts have invented certain new and useful Improvements in Shingling-Brackets; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawing, which forms a part of this specification, in which—

Figure 1 represents a perspective view of my improved shingling-bracket, and

Figure 2 represents a central vertical section of the same.

To enable those skilled in the art to which my invention belongs to make and use the same, I will proceed to describe it more in detail.

The nature of my invention consists in an improved shingling-bracket, as hereinafter described.

My improved bracket is composed of a bed-piece, A, a vertical standard, B, and a horizontal supporting-piece, C, which pieces are framed together as follows:

The pieces A and C are joined together at one of their ends, and the piece B arranged between them at about one-fourth of their length from the opposite ends, in the manner shown in the drawing.

A metallic foot-piece, D, is attached to the upper end of the bed-piece A.

At its junction with the supporting-piece C it is provided with a flange, A, and is also secured by screws or a bolt passed through the ear-pieces *b*.

The end of the foot D projects beyond the end of

the wood-work, and is made thin and flat, so that it can be passed up between the shingles E, as shown, for the purpose of holding the upper end of the bracket in position upon the roof F.

In the rear end of the bed-piece A is formed a longitudinal slot, *f*, and arranged therein is a clamp-screw, G, for securing the bracket in position.

The lower end of the clamp-screw is provided with a hook, I, which is passed under the lower end of a shingle, and upon which it is firmly clamped by turning down the nut K, which nut is provided with thumb-flanges, as indicated. The slot *f* permits of adjustment to different lengths of lap on the shingles.

A washer, *c*, is arranged between the nut and piece A, to prevent damage to the wood.

The boards for the staging are laid upon the supporting-pieces C, from one bracket to another.

It will be observed that my improved bracket can be attached to the roof very quickly, and in a secure and safe manner, and that, too, without injury to the roof by driving nails or screws through the shingles.

Having described my improvements in shingling-brackets,

What I claim therein as new and of my invention, and desire to secure by Letters Patent, is—

The combination, with the bracket-pieces A B C, of the foot-piece D, clamping-screw G I, and nut K, substantially as and for the purposes herein set forth.

EDWARD J. WORCESTER.

Witnesses:

A. E. PEIRCE,

THOS. H. DODGE.